PTO/SB/05 (08-03)
Approved for use through 07/31/2006. OMB 0651-0032
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(Only for new nonprovisional applications under 37 CFR 1.53(b))

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UTILITY PATENT APPLICATION TRANSMITTAL	Attorney Docket No.	0830.0				
	First Inventor	Thundat				
	Title	Multi-Purpose Multi-Func Surface-Tension Microflu				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.	EH963693991US				

	APPLICATION ELEMENTS apter 600 concerning utility patent application contents.	ADDRESS TO: Commission P.O. Box 14	atent Application ner for Patents 150 VA 22313-1450				
Submit a 2. Applican See 37 (3. Specifica (preferred - Descript) - Cross R - Stateme - Referen or a con - Backgro - Brief Su - Brief Su - Detaillet - Claim(s	d arrangement set forth below) tive title of the invention Reference to Related Applications ent Regarding Fed sponsored R & D nce to sequence listing, a table, mputer program listing appendix bund of the Invention ammary of the Invention ascription of the Drawings (if filed) d Description	ii. Paper	edix) Sequence Submission Form (CRF) Ince Listing on: D-R (2 copies); or Identity of above copies PLICATION PARTS				
4. Drawing	g(s) (35 U.S.C. 113) [Total Sheets1	10. 37 CFR 3.73(b) Stateme	nt Power of				
5. Oath or Declaration [Total Sheets 2] a. Newly executed (original or copy)		(when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Statement (IDS)/PTO-1449 Citations					
b. Copy	y from a prior application (37 CFR 1.63(d)) continuation/divisional with Box 18 completed)	13. Preliminary Amendment 14. Return Receipt Postcard	(MPEP 503)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. Application Data Sheet. See 37 CFR 1.76		(Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. Other:					
40 K - CONTIN	IUING APPLICATION, check appropriate box, and su	noly the requisite information below an	d in the first sentence of the				
specification follo	owing the title, or in an Application Data Sheet under	37 CFR 1.76:					
Continu	uation Divisional Continu	uation-in-part (CIP) of prior application	n No.:				
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omlitted from the submitted application parts.							
	19. CORRESPO	NDENCE ADDRESS					
Custome	er Number: 24298	OR Corre	spondence address below				
	UT-Battelle, LLC						
Addmon b	P.O. Box 2008 111B Union Valley Road	- Mr					
	Oak Ridge	State Tennessee	Zip Code 37831-6498				
	United States of America	Telephone 865.574.4180	Fax 865.574.0381				
Name (Print/Typ	De) James M. Spicer		26,096				
Signature	Junes M. S.	yieu	Date September 29, 2003				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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FEE TRANSMITTAL		Complete if Known			
		Application Number			
for FY 2003 Effective 01/01/2003. Patent fees are subject to annual revision.		Filing Date			
		First Named Inventor	Thundat		
Applicant claims small entity status. See 37 CFR 1.27		Examiner Name			
Applicant claims small entity status.	1	Art Unit			
TOTAL AMOUNT OF PAYMENT	(\$) 5,368.00	Attorney Docket No.	0830.0		

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	<u>Large</u> l	Entity	Small	Entity		
Denosit	Fee Code			Fee (\$)	Fee Description	C. D.M
Account Number	1051	130	2051		Surcharge - late filing fee or oath	Fee Paid
Deposit LIT Dettelle LLC	1052	50	2052		Surcharge - late provisional filing fee or	
Name U1-Battelle, LLC					cover sheet	
The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification	
Charge fee(s) indicated below Credit any overpayments		2,520	1812	•	For filing a request for ex parte reexamination	
Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
to the above-identified deposit account.	1251	110	2251	55	Extension for reply within first month	
FEE CALCULATION	1252	410	2252	205	Extension for reply within second month	
1. BASIC FILING FEE Large Entity Small Entity	1253	930	2253	465	Extension for reply within third month	
Fee Fee Fee Fee Description Fee Paid	1254	1,450	2254	725	Extension for reply within fourth month	
Code (\$) Code (\$) 1001 750 2001 375 Utility filing fee	1255	1,970	2255	985	Extension for reply within fifth month	
1002 330 2002 165 Design filing fee 750.00	1401	320	2401	160	Notice of Appeal	
1003 520 2003 260 Plant filing fee	1402	320	2402		Filing a brief in support of an appeal	
1004 750 2004 375 Reissue filing fee	1403	280	2403		Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 750.00	1452	110	2452	55	Petition to revive - unavoidable	
	1453	1,300	2453	650	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,300	2501	650	Utility issue fee (or reissue)	
Extra Claims below Fee Paid	1502	470	2502	235	Design issue fee	
Total Claims 265 -20** = 245 X 18 = 4410	1503	630	2503	315	Plant issue fee	
Claims 2 - 3 = 4	1460	130	1460	130	Petitions to the Commissioner	
Multiple Dependent 0 =0	1807	50	1807	7 50	Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	1806	180	1806		Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	8021	40	8021	l 40	Recording each patent assignment per property (times number of properties)	40.00
1202 18 2202 9 Claims in excess of 20	1809	750	2809	375	Filing a submission after final rejection	
1201 84 2201 42 Independent claims in excess of 3					(37 ČFR 1.129(a))	
1203 280 2203 140 Multiple dependent claim, if not paid	1810	750	2810	375	For each additional invention to be examined (37 CFR 1.129(b))	
1204 84 2204 42 ** Reissue independent claims over original patent	1801	750	2801	375	Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	Request for expedited examination of a design application	
SUBTOTAL (2) (\$) 4,578.00	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above	*Redu	iced by	Basic I	Filing F	ee Paid SUBTOTAL (3) (\$) 40.00)

SUBMITTED BY (Complete (if applicable))						if applicable))
Name (Print/Type)	James M. Spicer	0	Registration No. (Attorney/Agent)	26,096	Telephone	865.574.4180
Signature	James M.	Spe	eli		Date	September 29, 2003

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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